(54) Title: METHODS AND SYSTEMS FOR CONVERTING IMAGES FROM LOW DYNAMIC RANGE TO HIGH DYNAMIC RANGE
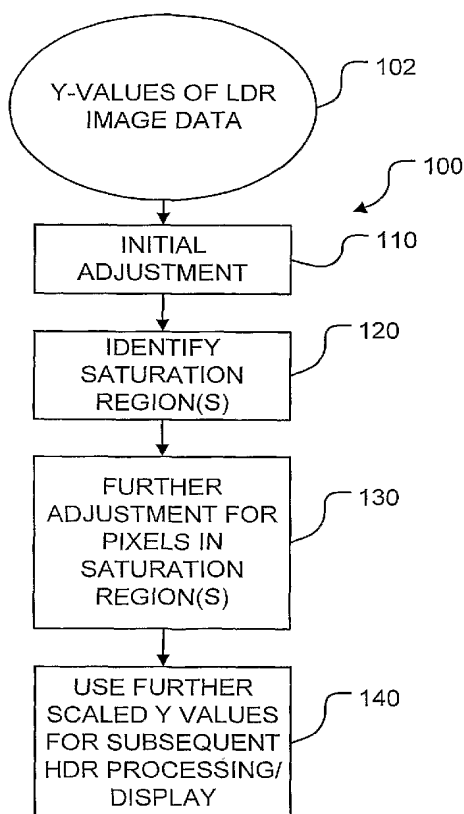
(57) Abstract: Aspects of the invention provide systems and methods for con-
verting a digital image represented in a lower bit depth representation to a higher
bit depth representation. A saturation region is identified, where a color model
value of the pixels in the saturation region is above an upper saturation threshold
or below a lower saturation threshold. The color model value for each pixel in
the saturation region is then adjusted by a corresponding adjustment. The mag-
nitude of the adjustment for each pixel is based on characteristics of the image
data.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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